Deformable Templates in Image Analysis and Classification

WEDNESDAY, May 27, 2009, at 4:45 PM
110 Eckhart Hall, 5734 S. University Avenue

ABSTRACT

I will present the paper, “Toward a Coherent Statistical Framework for Dense Deformable Template Estimation” (S. Allassonnieire, Y. Amit, A. Trouve, 2005). This paper defines a Bayesian approach to the problem of estimating templates and deformation structures from a given set of grayscale images. The computational challenges of the model are approached through a series of approximations, and the model is shown to be very successful in the classification of hand-written numerical digits.

Information about building access for persons with disabilities may be obtained in advance by calling Kelly Macias at 773.834.5169 or by email (kmacias@galton.uchicago.edu).